

## CLAIMS

[1] An image transmission system comprising:

a plurality of image generating apparatuses, each of which is operable to generate an image; and

5 an image projecting apparatus operable to project the plurality of images transmitted from said image generating apparatus,

wherein said image projecting apparatus includes:

10 a status monitoring unit operable to monitor a status of communication with said plurality of image generating apparatuses;

a beacon generating unit operable to generate information related to the communication status which is being monitored by said status monitoring unit; and

15 a transmitting unit operable to transmit the generated information to said image generating apparatus,

wherein said image generating apparatus includes:

a receiving unit operable to receive the information from said image projecting apparatus;

an analyzing unit operable to analyze the information; and

20 a display unit operable to display a result of the analysis of said analyzing unit.

[2] The image transmission system according to Claim 1,

wherein said beacon generating unit is operable to generate 25 the information at a predetermined interval of time.

[3] The image transmission system according to Claim 1,

wherein said transmitting unit is operable to broadcast the generated information to said plurality of image generating 30 apparatuses.

[4] The image transmission system according to Claim 1,

wherein said analyzing unit is operable to identify said image projecting apparatus to be an originator of the information,

said image generating apparatus further includes

a notification unit operable to notify said identified image

5 projecting apparatus of the reception of the information,

said status monitoring unit is operable to count the number of notifications, as the number of said image generating apparatuses connected to said image projecting apparatus, and

said beacon generating unit is operable to generate the

10 information including the number of said image generating apparatuses.

[5] The image transmission system according to Claim 1,

wherein said image projecting apparatus further includes

15 an ID assignment unit operable to assign a unique identifier to identify said image projecting apparatus,

wherein said beacon generating unit is operable to generate the information including the identifier.

20 [6] The image transmission system according to Claim 5, said system comprising said plurality of image projecting apparatuses,

wherein said receiving unit is operable to receive the information from said plurality of image projecting apparatuses,

said analyzing unit is operable to identify said image

25 projecting apparatus to be an originator of the information based on the identifier, and

said display unit is operable to display the identifier of said identified image projecting apparatus.

30 [7] The image transmission system according to Claim 5,

wherein said image generating apparatus further includes

an inquiry unit operable to accept the assignment of the

identifier of said image projecting apparatus, to generate a confirmation packet for inquiring about the location of said image projecting apparatus, and to transmit the generated confirmation packet to said image projecting apparatus assigned the identifier,

5           said image projecting apparatus further includes:

          a confirmation packet receiving unit operable to receive the confirmation packet; and

10           a response output unit operable to output a response to the reception of the confirmation packet upon receiving the confirmation packet.

[8]    The image transmission system according to Claim 7,

          wherein said response output unit is operable to output the response by making a buzzer sound or flashing an LED lamp.

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[9]    An image transmission method of transmitting a plurality of images from a plurality of image generating apparatuses, each of which generates an image, to an image projecting apparatus which projects the plurality of images, said method comprising the following steps to be executed by the image projecting apparatus:

          a status monitoring step of monitoring a status of communication with the plurality of image generating apparatuses;

          a beacon generating step of generating information related to the communication status which is being monitored in said status monitoring step; and

          a transmitting step of transmitting the generated information to the image generating apparatus,

          said method comprising the following steps to be executed by the image generating apparatus:

30           a receiving step of receiving the information from the image projecting apparatus;

          an analyzing step of analyzing the information; and

a display step of displaying a result of the analysis in said analyzing step.

[10] An image generating apparatus in an image transmission system which comprises a plurality of image generating apparatuses, each of which generates an image, and an image projecting apparatus which projects the plurality of images transmitted from said image generating apparatus, said image generating apparatus comprising:

10 a receiving unit operable to receive information related to a status of communication with said plurality of image generating apparatuses from said image projecting apparatus;

an analyzing unit operable to analyze the information; and

15 a display unit operable to display a result of the analysis by of said analyzing unit.

[11] A program for use in an image generating apparatus in an image transmission system which comprises a plurality of image generating apparatuses, each of which generates an image, and an image projecting apparatus which projects the plurality of images transmitted from the image generating apparatus, said program causing a computer to execute the following steps:

20 a receiving step of receiving information related to a status of communication with the plurality of image generating apparatuses from the image projecting apparatus,

25 an analyzing step of analyzing the information, and

a displaying step of displaying a result of the analysis in said analyzing step.

30 [12] An image projecting apparatus in an image transmission system which comprises a plurality of image generating apparatuses, each of which generates an image, and an image projecting

apparatus which projects the plurality of images transmitted from said image generating apparatus, said image projecting apparatus comprising:

5 a status monitoring unit operable to monitor a status of communication with said plurality of image generating apparatuses;

a beacon generating unit operable to generate information related to the communication status which is being monitored by said status monitoring unit; and

10 a transmitting unit operable to transmit the generated information to said image generating unit.

[13] A program for use in an image projecting apparatus in an image transmission system which comprises a plurality of image generating apparatuses, each of which generates an image, and an 15 image projecting apparatus which projects the plurality of images transmitted from said image generating apparatus, said program causing a computer to execute the following steps:

a monitoring step of monitoring a status of communication with said plurality of image generating apparatuses;

20 a beacon generating step of generating information related to the communication status which is being monitored in said monitoring step; and

a transmitting step of transmitting the generated information to said image generating apparatus.